```
import numpy as hah
arr1=[10,20,30,40,50]
arr2=[2,4,6,8,10]
a=hah.array(arr1)
b=hah.array(arr2)
print("Original arrays")
print(a)
print(b)
print("\nVector addition")
print(a+b)
print("\nVector subtraction")
print(a-b)
print("\nVector multiplication")
print(a*b)
print("\nVector division")
print(a/b)
print("\nVector Dot product")
print(a.dot(b))
print("\nScalar multiplication")
sclr=5
print("scalar value=",sclr)
print("array=",a)
print("result=",a*sclr)
→ Original arrays
     [10 20 30 40 50]
     [2 4 6 8 10]
     Vector addition
     [12 24 36 48 60]
     Vector subtraction
     [ 8 16 24 32 40]
     Vector multiplication
     [ 20 80 180 320 500]
     Vector division
     [5. 5. 5. 5. 5.]
     Vector Dot product
     1100
     Scalar multiplication
     scalar value= 5
     array= [10 20 30 40 50]
     result= [ 50 100 150 200 250]
#Numpy.Vectorize method
def my_func(x,y):
        \#"Return x-y if x>y,otherwise return x+y"
    if x>y:
        return x-v
    else:
        return x+y
print("\n\nNumpy.Vectorize method")
print("Return x-y if x>y,otherwise return x+y)")
arr1=[10,4,20]
arr2=[2,3,30]
vec_func=hah.vectorize(my_func)
print("array1:",arr1)
print("array2:",arr2)
print("result:",vec_func(arr1,arr2))
\overline{\Rightarrow}
     Numpy. Vectorize method
     Return x-y if x>y,otherwise return x+y)
     array1: [10, 4, 20]
     array2: [2, 3, 30] result: [8 1 50]
Start coding or generate with AI.
```